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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/748,359	12/30/2003	Valery M. Dubin	110348-135103	7770
25943	7590 01/05/2005	EXAMINER		
	WILLIAMSON & W	QUACH, TUAN N		
	PACWEST CENTER, SUITES 1600-1900 1211 SW FIFTH AVENUE		ART UNIT	PAPER NUMBER
PORTLAND,	OR 97204		2814	

DATE MAILED: 01/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

:	Application No.	Applicant(s)				
:	10/748,359	DUBIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Tuan Quach	2814				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) This						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	n from consideration.					
5) Claim(s) is/are allowed.						
6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.						
8)⊠ Claim(s) <u>1-24</u> are subject to restriction and/or e	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) diplected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
: Attackmont(s)						
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	nte				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

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DETAILED ACTION

Initially, it is noted that claim 16 reciting "a semiconductor device as recited in claim 9" wherein claim 9 corresponds to a process claim. While claim 16 is provisionally grouped in group I below, the claim as written is erroneous as a dependent product claim cannot depend from a process claim. To the extent that applicant intends claim 9 to be a process claim, claim 16 needs to be corrected to "a method for making a semiconductor device . . . " and will be grouped with process claims 9-15 and 17-20 upon applicant's correction; compare, e.g., claims 10-15 as to the correct dependency. To the extent claim 16 is intended to be a product claim, it must be corrected to depend from a product claim or to be an independent claim.

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-8, 16, and 21-24, drawn to a semiconductor device, classified in class 257, subclass 751.
- II. Claims 9-15 and 17-20, drawn to a process of making a semiconductor device, classified in class 438, subclass 627.

The inventions are distinct, each from the other because of the following reasons:

Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed in claims 1-8 can be

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made by another and materially different process wherein the interconnect structure is formed and patterned prior to forming the dielectric; the product as claimed in claims 21-24 can be made without the dielectric or with a subsequently formed dielectric.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Should applicant elect the group I invention, the following is applicable

This application contains claims directed to the following patentably distinct species of the claimed invention:

- 1. The claimed species of claims 1-8 and 16 regarding a semiconductor device comprising a substrate, a dielectric layer formed over the substrate, a damascene interconnect structure, a tapered barrier.
- 2. The claimed species of claims 21-24 regarding a system with a damascene interconnect structure comprising a microprocessor including a damascene interconnect structure within the damascene, a bus coupled to the microprocessor, a network interface coupled to the bus.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument

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that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to examiner Quach whose telephone number (571) 272-1717. The examiner can normally be reached on M - F from 8 to 4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-

1562.

Tuan Quach Primary Examiner Page 5